

Jan Philip Solovej CV (March 2017)

Personal:

Professor Jan Philip Solovej
Born: June 14, 1961, Copenhagen, Denmark
Citizenship: Danish
Married, two Children
<http://www.math.ku.dk/~solovej>

Workplace:

Institute for Mathematical Sciences
University of Copenhagen
Universitetsparken 5
DK-2100 Copenhagen, DENMARK
Email: solovej@math.ku.dk

Education:

- Cand. Scient., University of Copenhagen, 1985
- Ph.D., Princeton University, 1989

Research interests: *Mathematical Physics:* Stability of Matter, Many-body theory, Atomic structure, Bose gases, Condensed matter Physics, Statistical mechanics, Semiclassics, Variational methods, Spectral theory, Partial differential equations, Quantum Information Theory

Employment:

- 1989-90: Visiting Assistant Professor, Dept. of Math., University of Michigan
- 1990 (Fall): Post-doctoral fellow, Dept. of Math., University of Toronto
- 1991 (Spring): Member, School of Math., Institute for Advanced Study, Princeton
- 1991-1995: Assistant Professor, Dept. of Math., Princeton University
- 1995-1997: Research Professor (Forskningsprofessor), Dept. of Math., Aarhus Univ.
- 1997-present: Professor, Inst. for Math. Sciences, University of Copenhagen
- 2016-2021: Centre leader: Villum Centre of Excellence for the Mathematics of Quantum Theory (QMATH).

Visiting Positions:

- 1997 (Spring): Member, School of Math., Institute for Advanced Study, Princeton
- 2003-2004: Member, School of Math., Institute for Advanced Study, Princeton
- 2004 (2 months) Visitor Dept. of Physics, Princeton University
- 2005 (1 month) Visiting Professor, Université Paris Dauphine
- 2007 (Spring) Mercator Guest Professor, Ludwig-Maximilians-Universität, München

- 2013 (1 month) Visiting Professor Université Paris 6
- 2014 (3 months) Senior Research Fellow, Erwin Schrödinger Institute, Vienna

Honors, awards

- Member of the **The Royal Danish Academy of Sciences and Letters** (elected 2000)
- The 2001 University of Copenhagen **Teacher of the Year Award**
- The 2002 Friedman Rescue Award for significant contributions to Mathematical Physics.

Grant participation

- 1990-91 US NSF Personal grant (No. DMS-9002416)
- 1992-95 US NSF Personal grant (No. DMS-9203829)
- 1996–2001 EU-network (TMR) *Partial Differential Equations and Quantum Mechanics*, Danish team coordinator
- 1996–1997, 1998–2001, 2002–2005, 2005, 2006–2008, 2009–2011, 2012–14 Danish natural Science research council (SNF and FNU) research grants, co-PI (co-applicant)
- 1997–2006 Danish National Research Foundation Center *MaPhySto*, Co-PI, board member, and Copenhagen University representative
- 2002–2006 EU-network (IHP) *Postdoctoral Training program in Mathematical Analysis of Large Quantum Systems*, Danish team coordinator
- 2002–2007 ESF-programme *Spectral Theory and Partial Differential Equations* (SPECT), Member of the steering committee
- 2005–2008 Danish natural Science research council (SNF) *Center for Non-commutative Geometry*, Co-PI
- 2010–2015 ESF-programme *Random geometry of large interacting systems and statistical Physics* (RGLIS), Danish coordinator
- 2010 -2014 Research grant from the Lundbeck foundation *Quantum Theory Coupled to Geometry*
- 2013-2018 **ERC Advanced Grant:** *The Mathematics of the Structure of Matter*
- 2016-2021 Centre of Excellence grant from the Villum Foundation (4 million Euros)

Board memberships and administrative duties:

- Vicepresident and Secretary Danish Mathematical Society (1998–2006)

- Danish coordinator of European Research Group in Mathematics and Quantum Physics (2000-2008)
- Chairman of the international committee of the science faculty at the University of Copenhagen (2001–2003)
- Member of the C18 commission for mathematical physics under the International Union of Pure and Applied Physics (IUPAP) (2003–2007)
- Board member (2004–2010) of Institute Mittag-Leffler, Stockholm (vicechair of the board 2009-10)
- Executive Committee member (elected 2006–2011), **secretary (2009-2011)** of the **International Association of Mathematical Physics**.
- Evaluator US NSF (latest 2004), Swedish Research Council (latest 2005), Canadian NSERC (latest 2006), Norwegian Research Council (2008)
- Evaluator European Research Council (ERC) (2007, 2008 Starter Grants, 2011, 2013 Advanced grants)
- Member Norwegian Research Council (Fall 2007)
- Member of the European Mathematical Society prize committee 2008
- Member **The Danish Council for Independent Research | Natural Sciences (FNU)** (2008-2013), **Vicechair of the council (2009-2012)**, **Chairman of the council (2013)**
- Member of the **International Scientific Committee for the 16th International Congress in Mathematical Physics** (Prague 2009)
- Chairman of the prize committee for the International Association of Mathematical Physics *Early career award* (2009)
- Member scientific committee for the British-Nordic Congress of Mathematicians, Oslo, 2009
- Member of scientific board of Groupement de recherche (GDR) "Dynamique quantique" (2009-2012)
- Member **Editorial board** *Journal of Mathematical Physics* 2010-2012.
- Evaluator of the Physics Department ETH Zurich, 2013
- **Associate Editor** *Journal of Mathematical Physics* 2013–
- Member **Editorial board** *Journal of spectral Theory* 2011–.
- Member **Editorial board** *Journal of European Mathematical Society (JEMS)* 2014–.

- Board member **the Danish Council for Independent Research**, 2014–2017 (Vicechair 2016–2017)
- Evaluator 2015 of the Czech Academy of Sciences
- ERC Advanced grant panel member 2014 (Mathematics Panel PE1), **Panel Chair** 2016 (Mathematics Panel PE1).

M.Sc. Students: 29 graduated

Ph.d. students: 3 current students, 6 graduated: R. Reuvers (current position: Postdoc Cambridge), M. Makedonski, K. Petersen (current position: Novo Nordisk), P.T. Nam (From 2017 Prof. LMU München), S. Fournais (current position: Prof. Århus University), T. Østergaard Sørensen (current position: Prof. LMU München),

Post-docs: Total number 10: P. Balodis Matesanz, W.L. Spitzer, D. Hasler, C. Hainzl, M. Lewin, N. Gilka, D. Lundholm, F. Portmann, J. Sok (current), N. Benedikter (current)

Publications: 91 publications including 2 collections edited and 1 monograph.

(Citations (google scholar): 2650, H-index=28)